

FIG. 1

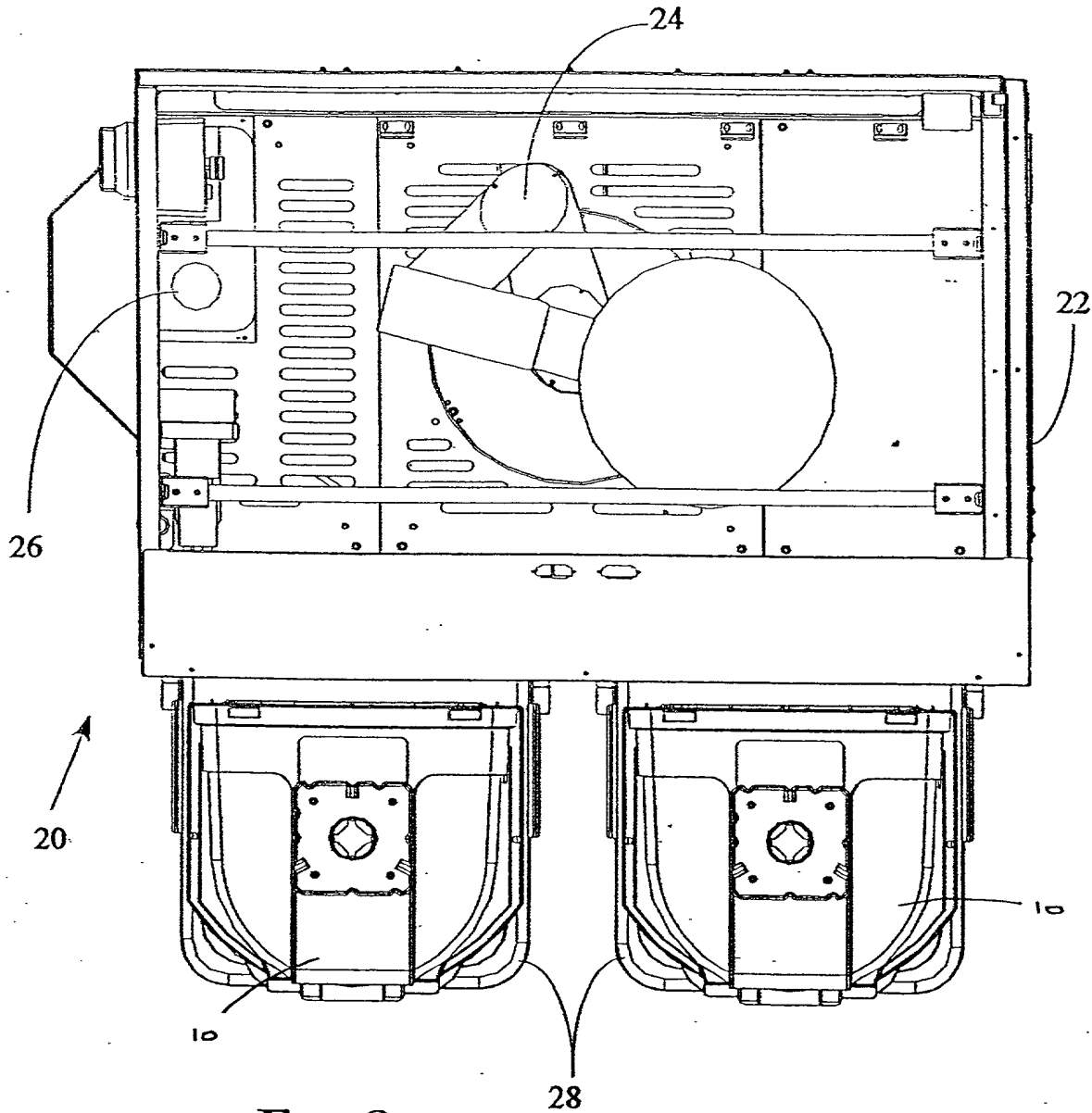


FIG. 2

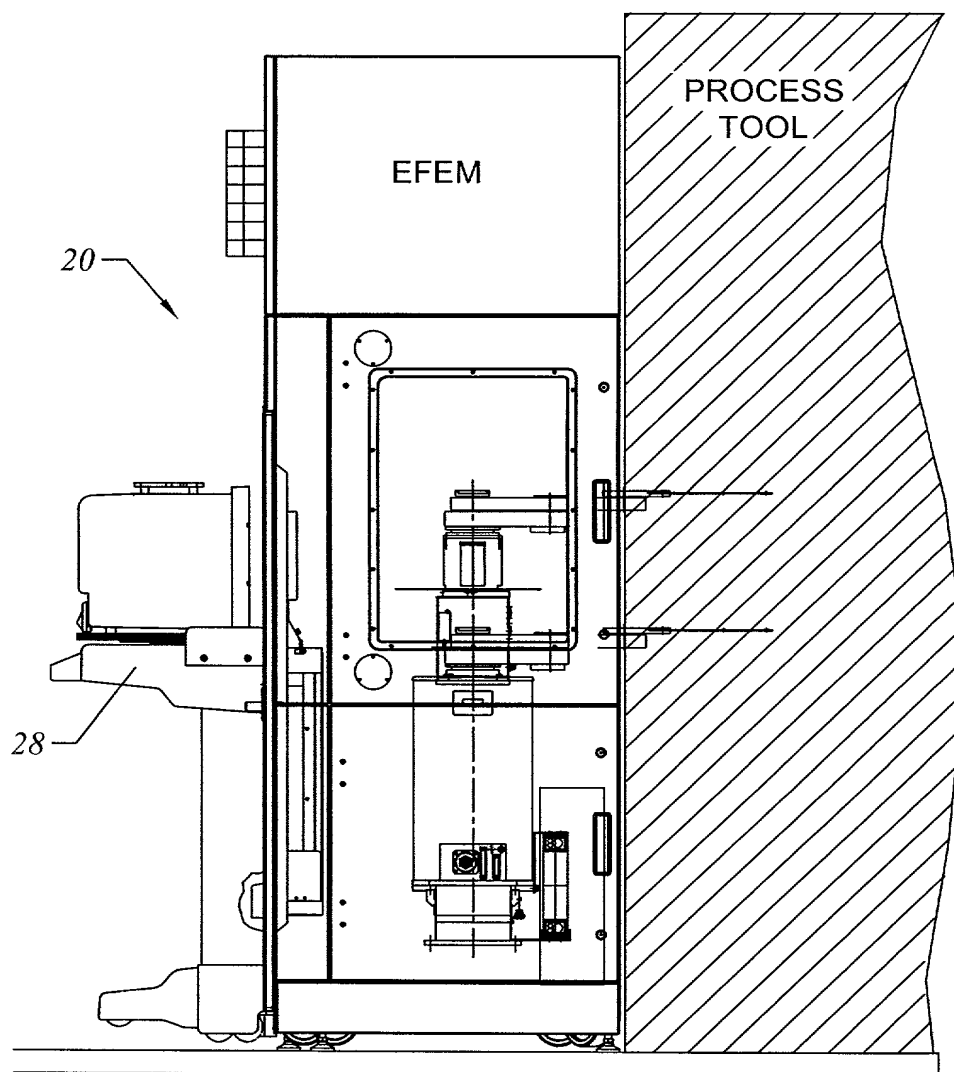


FIG. 3

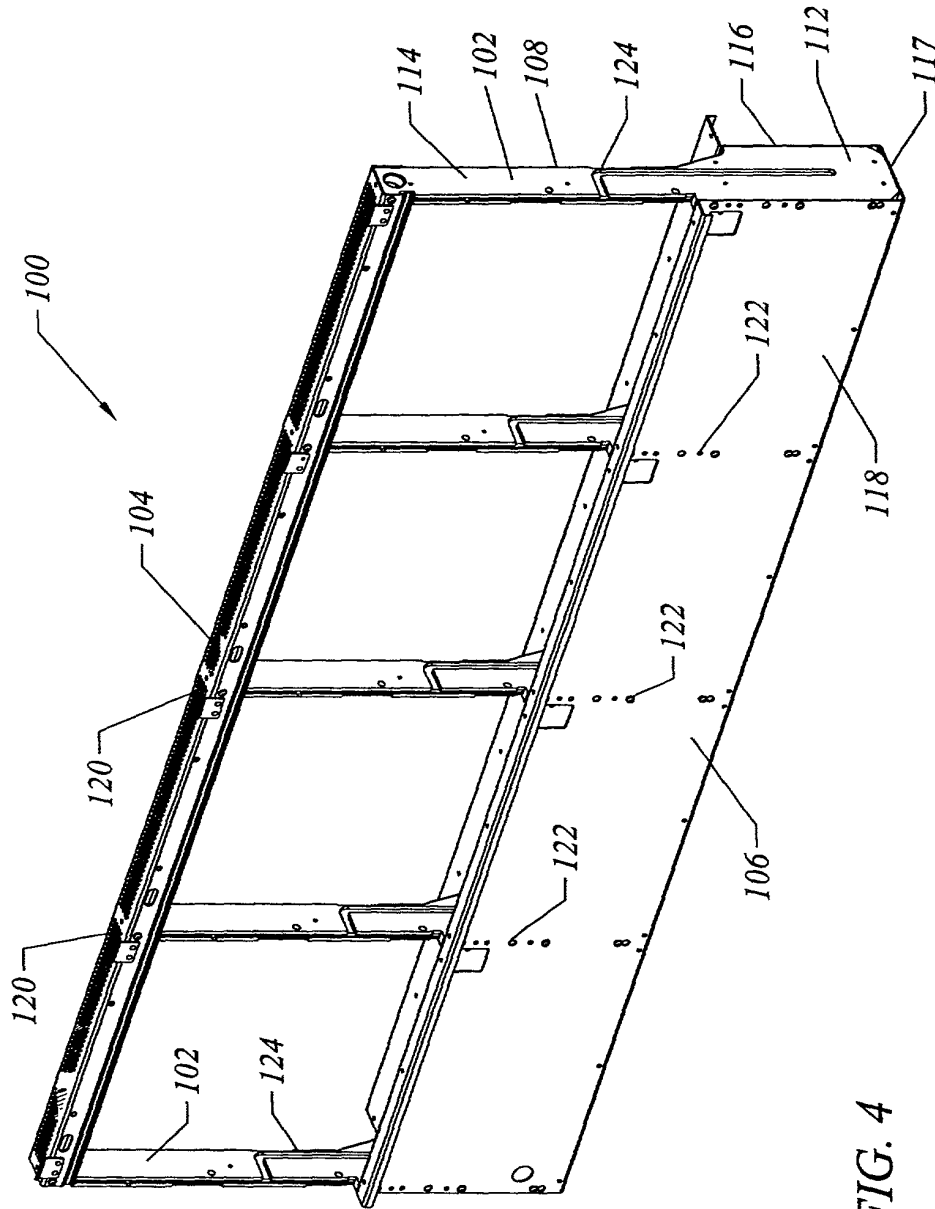


FIG. 4

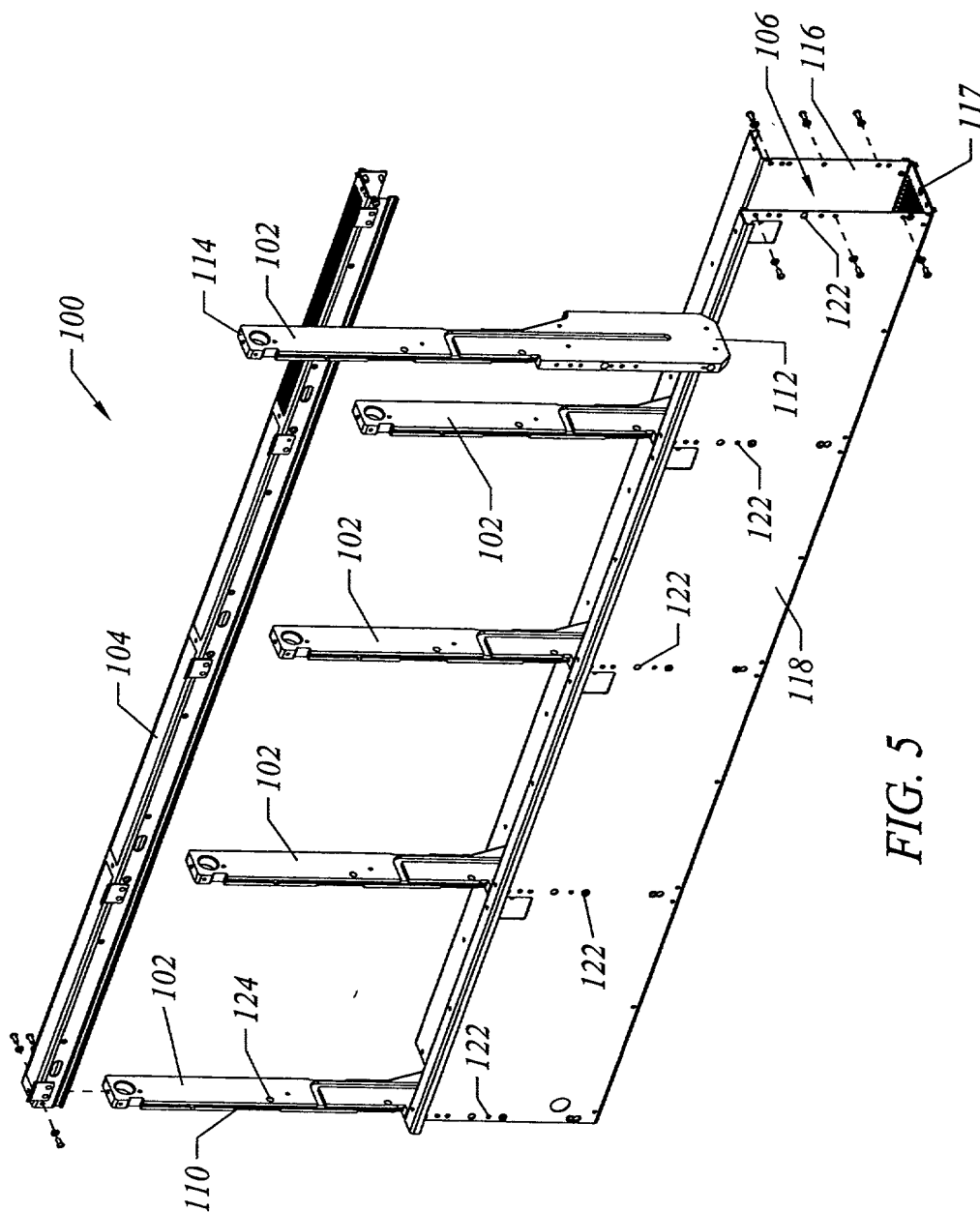
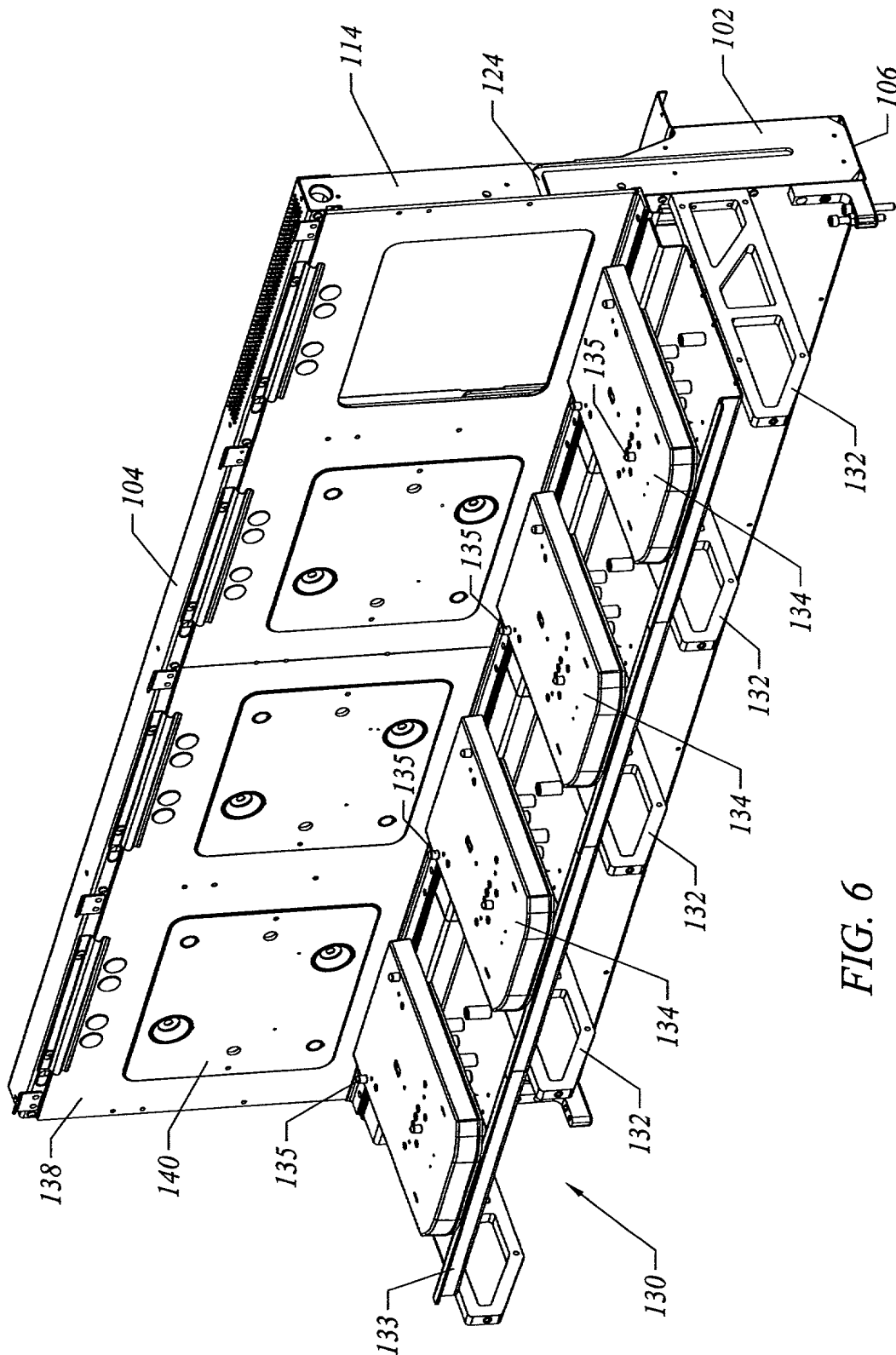


FIG. 5



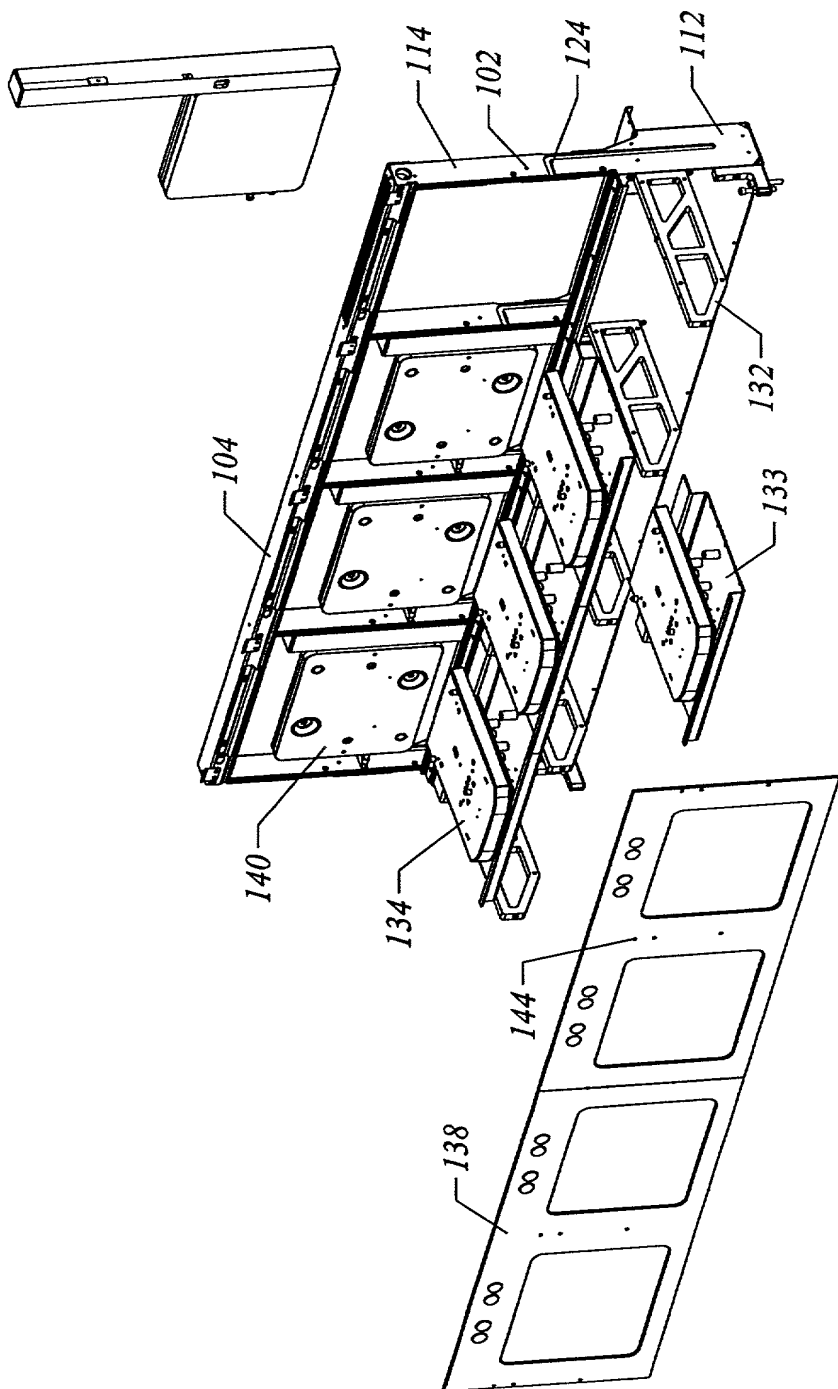


FIG. 7

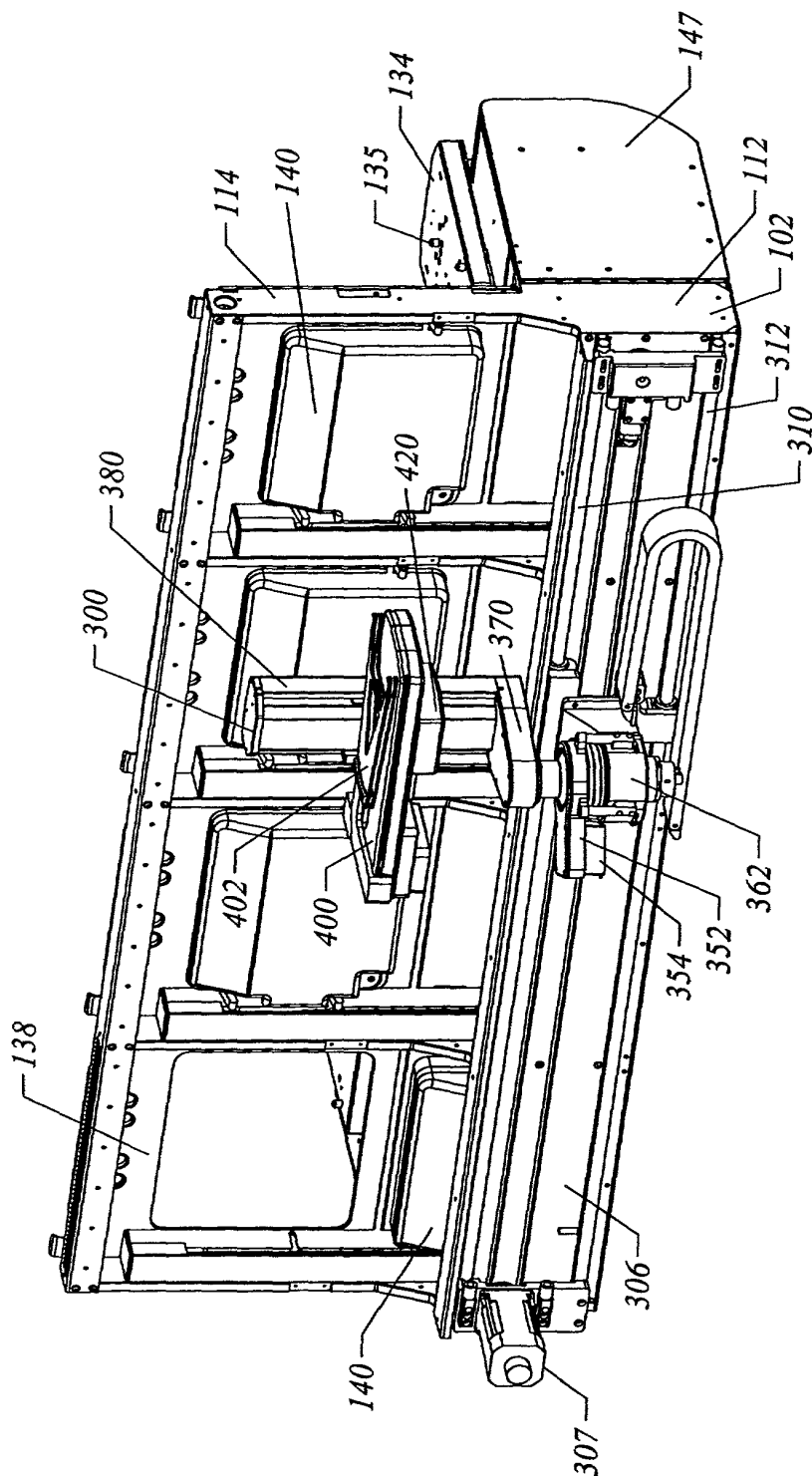


FIG. 8

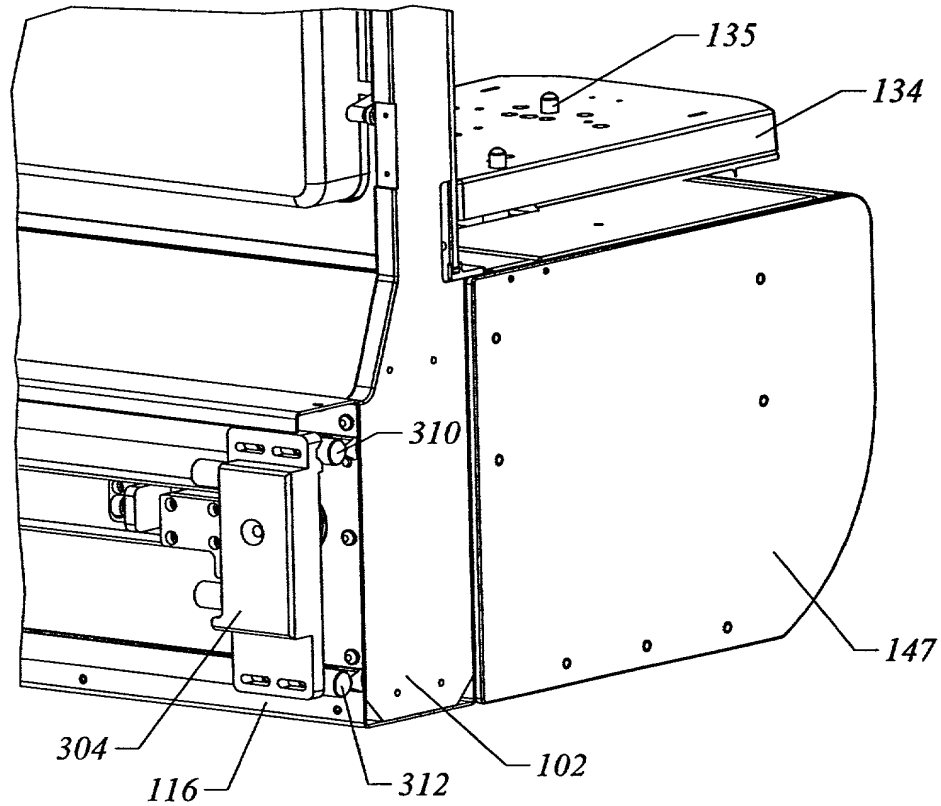


FIG. 9

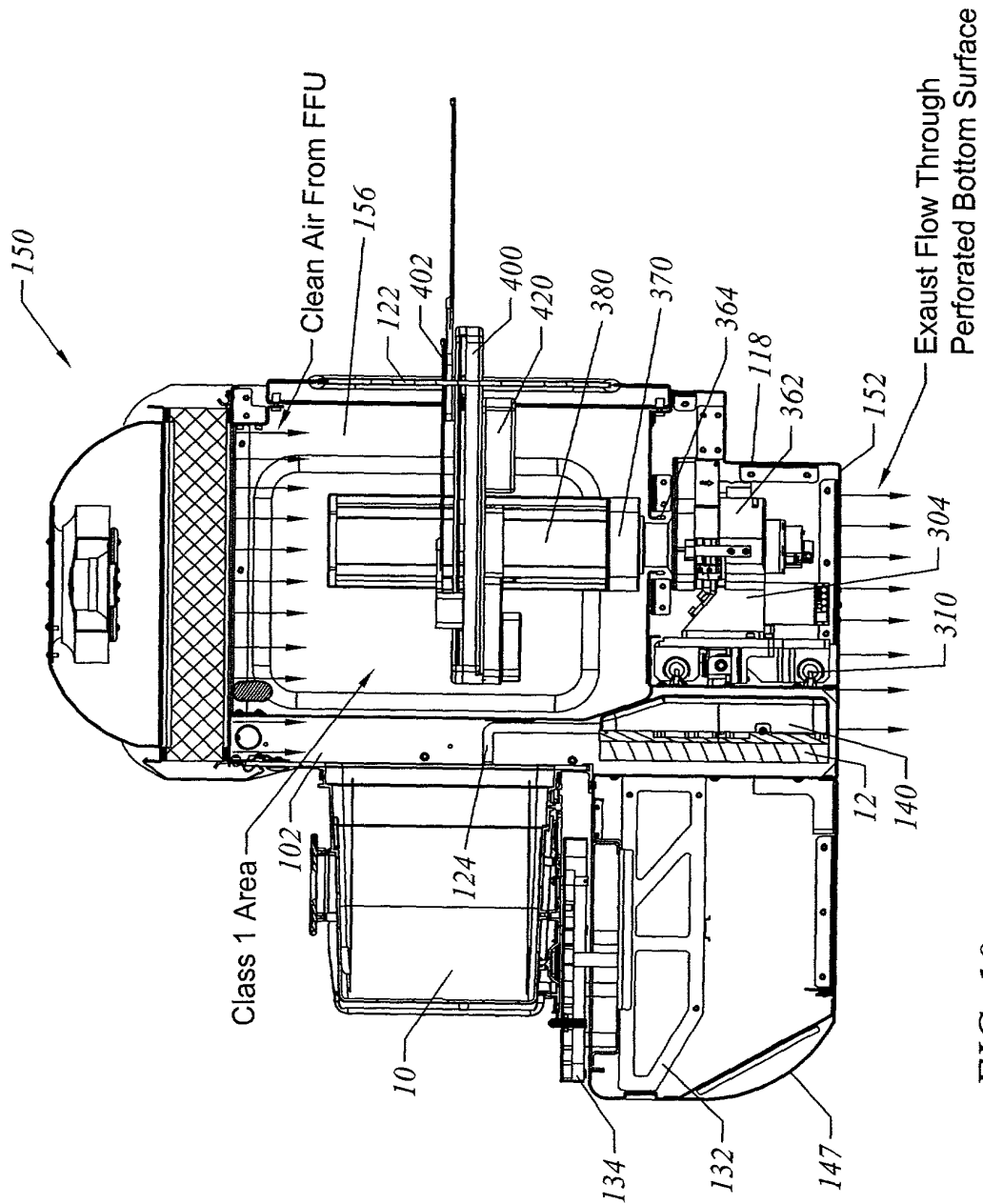


FIG. 10

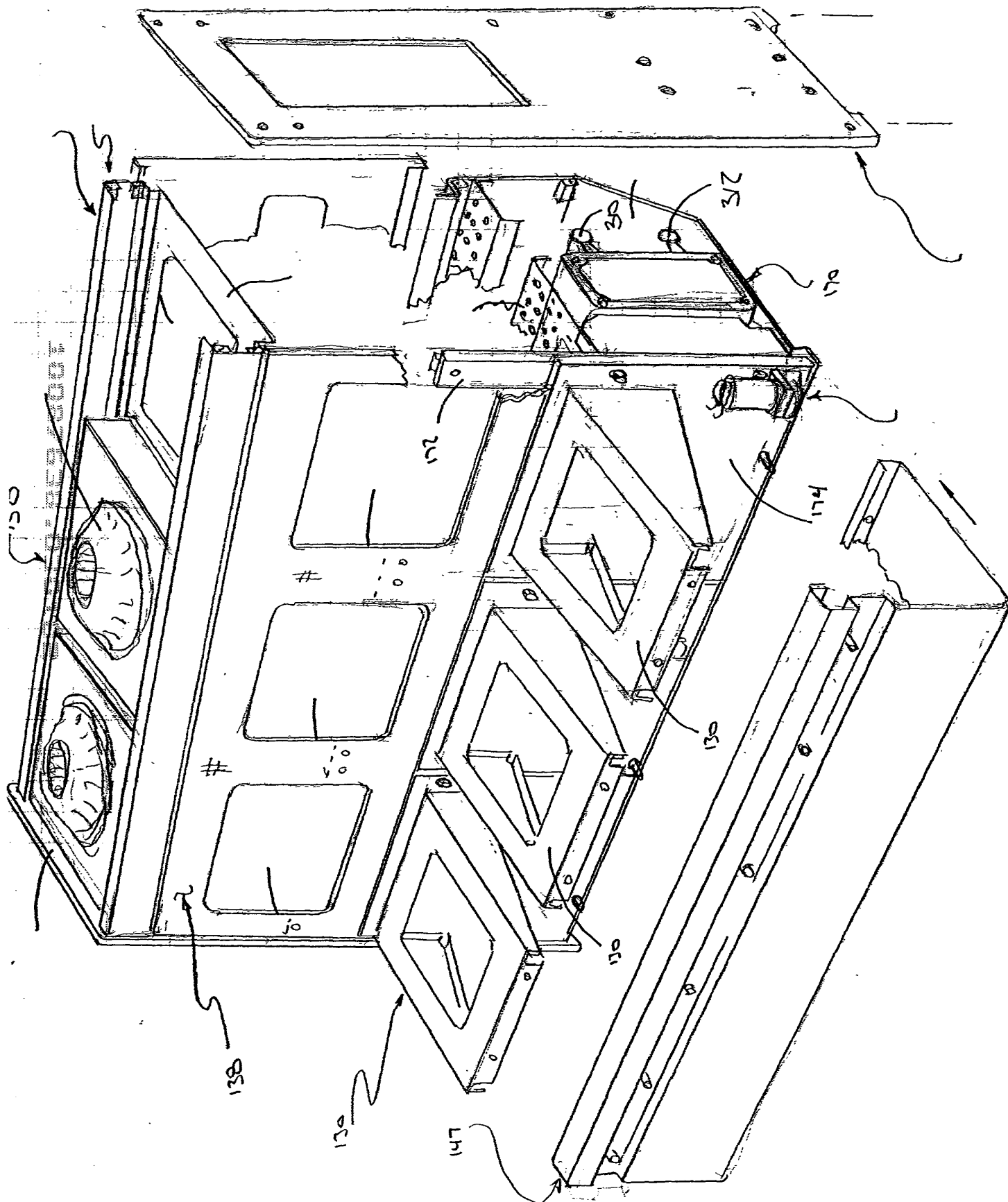


FIG. 11

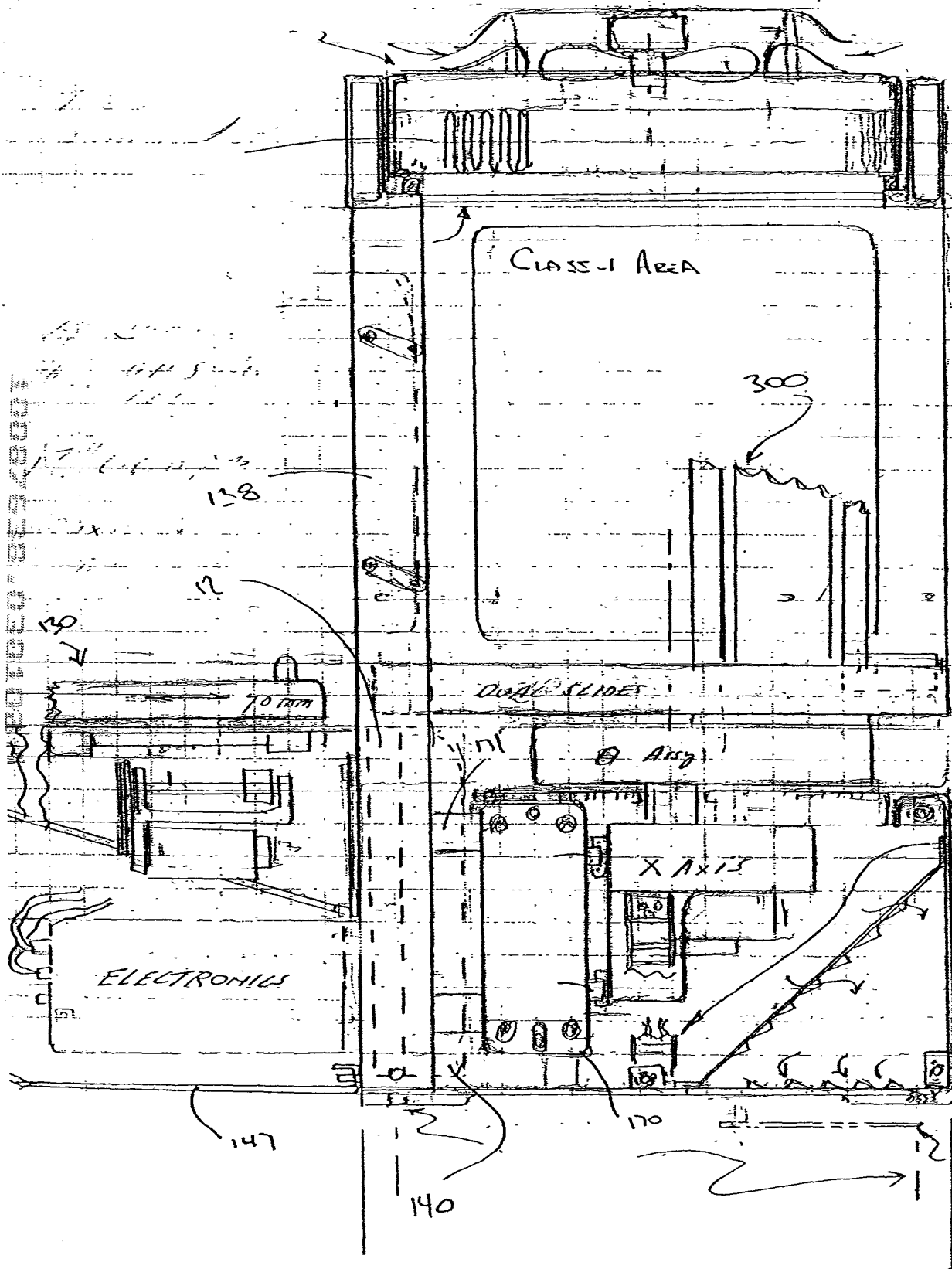


FIG. 12

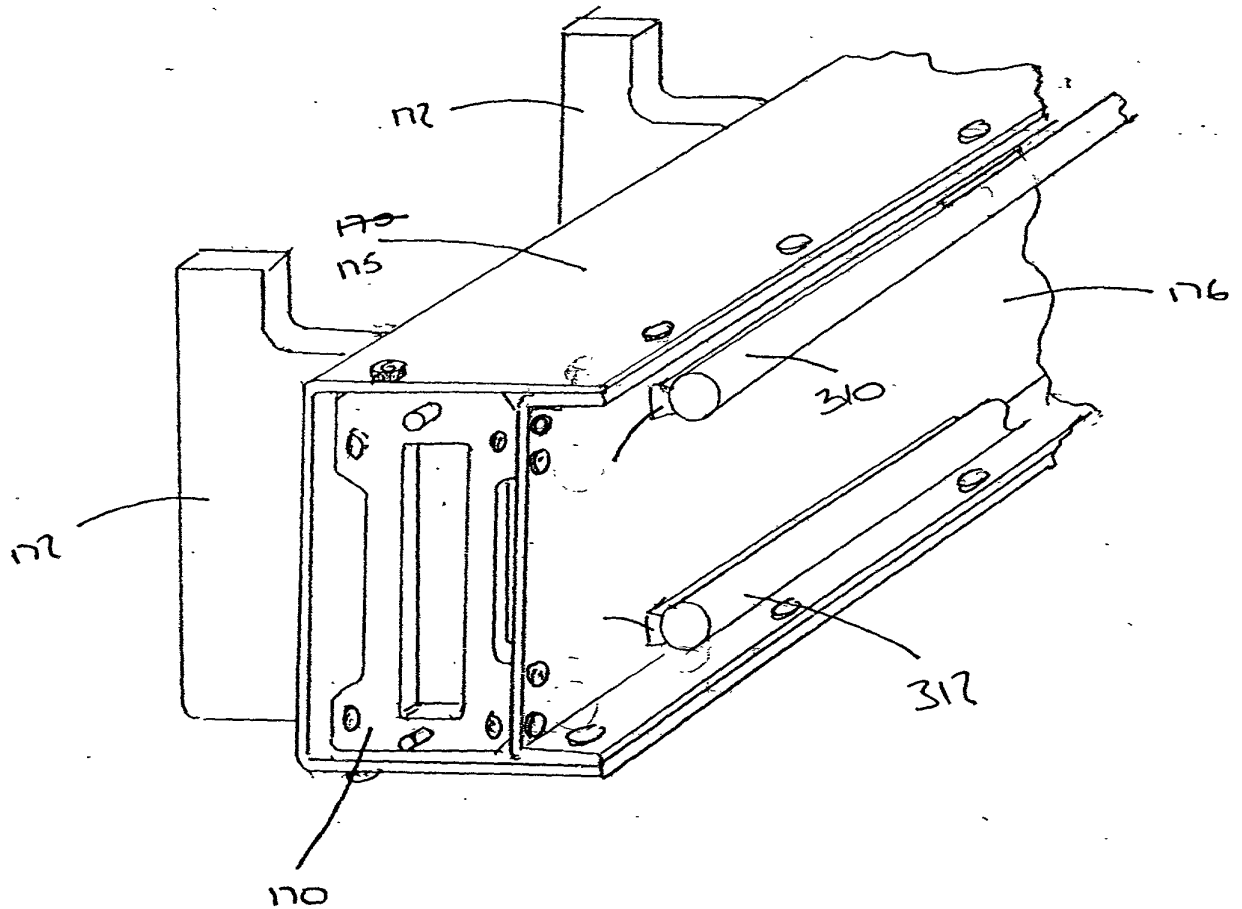


FIG. 13

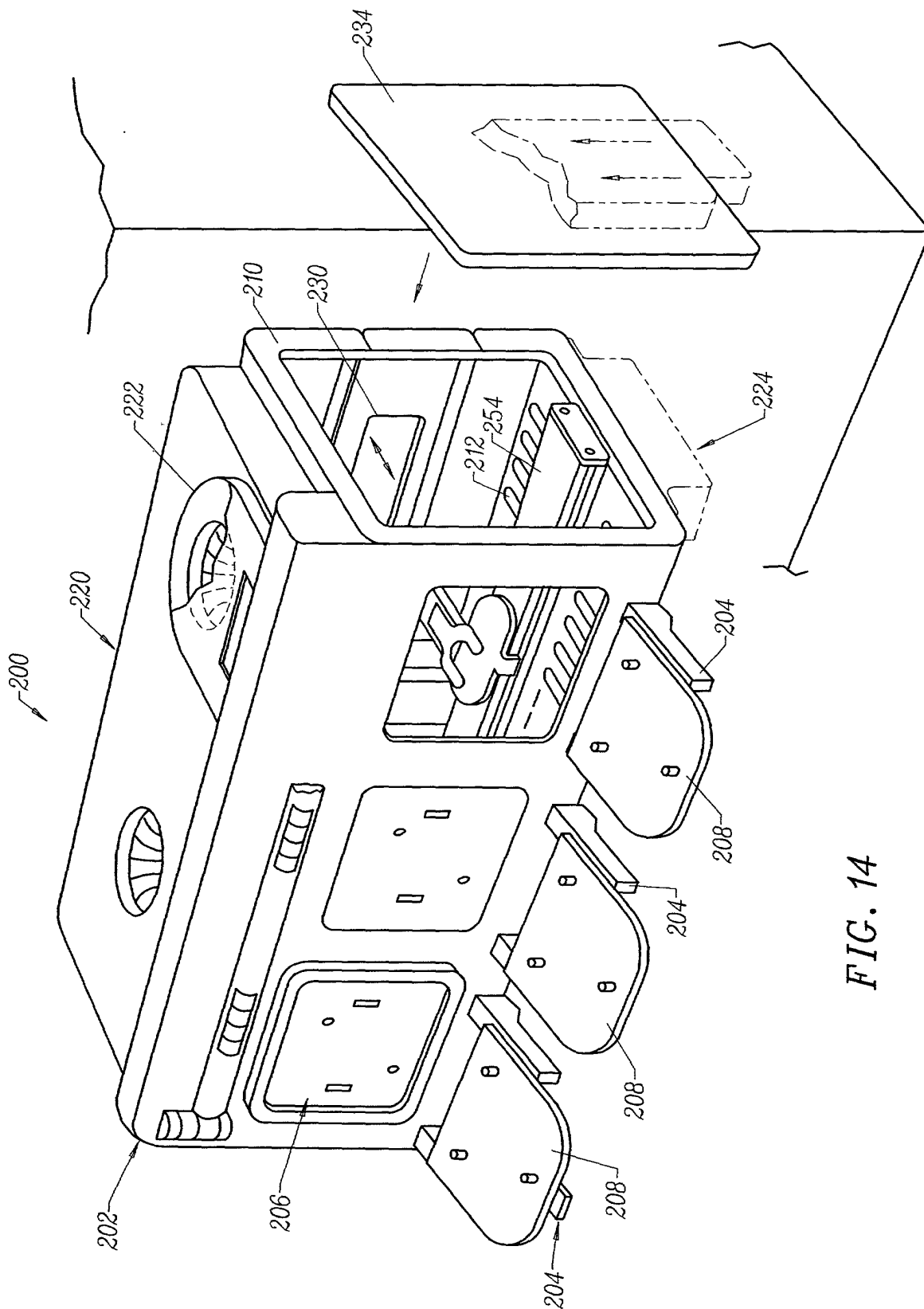


FIG. 14

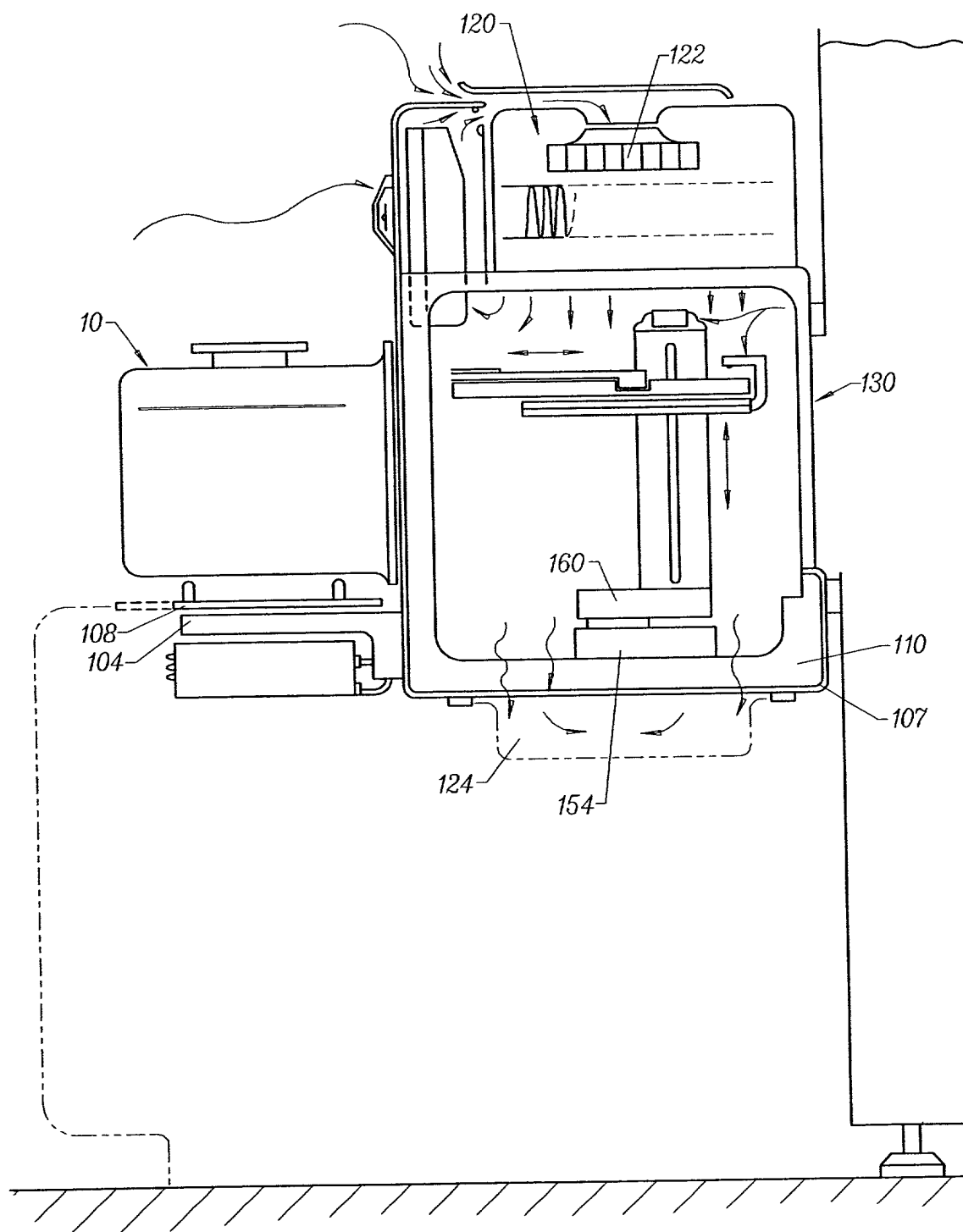


FIG. 15

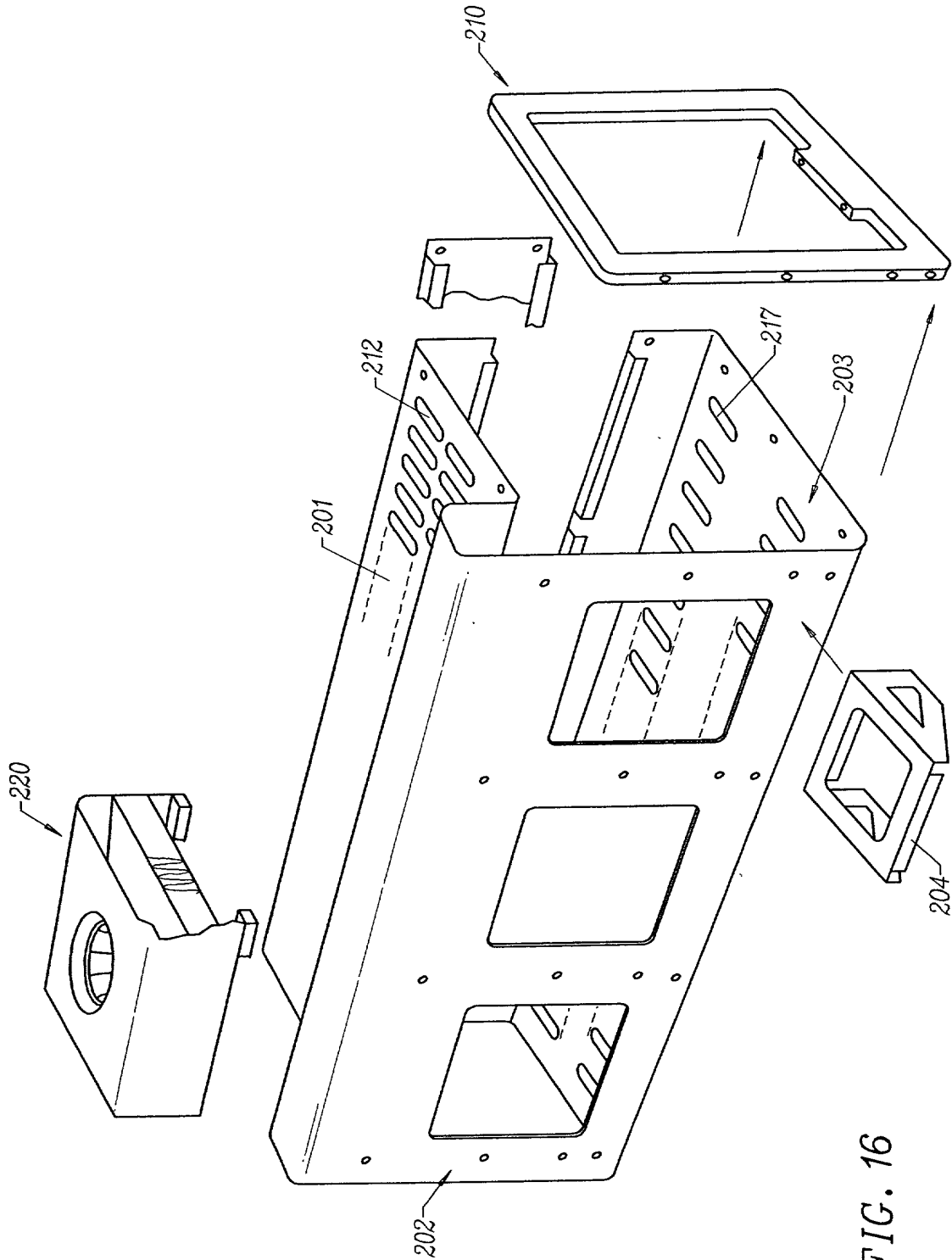


FIG. 16

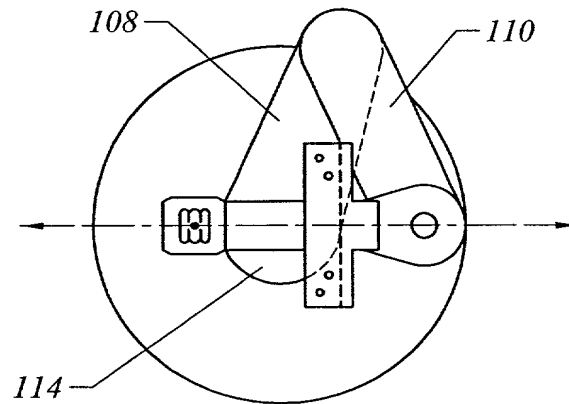


FIG. 17A
(Prior Art)

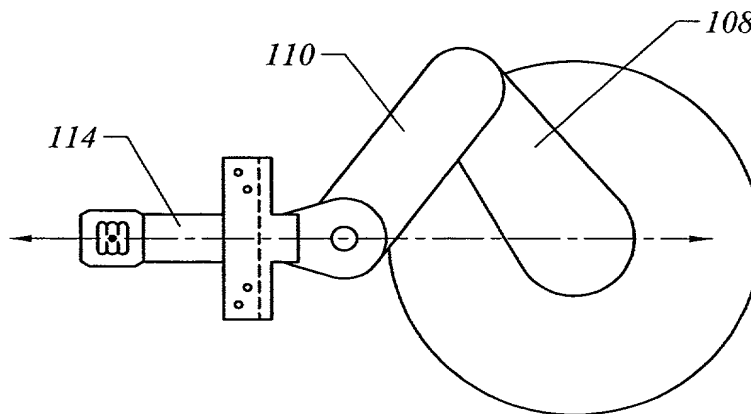


FIG. 17B
(Prior Art)

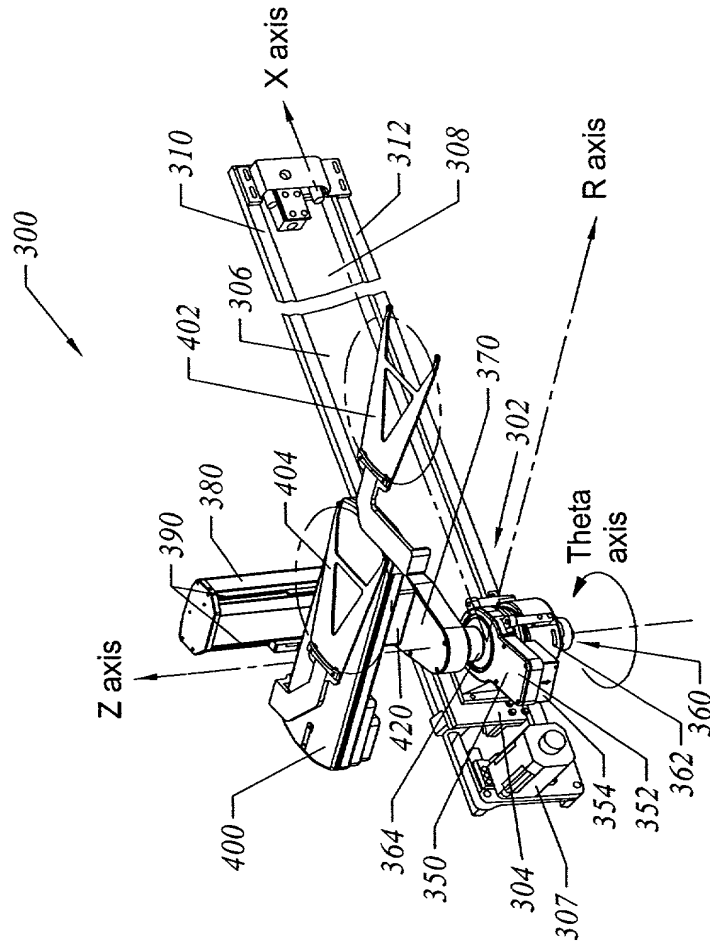


FIG. 18

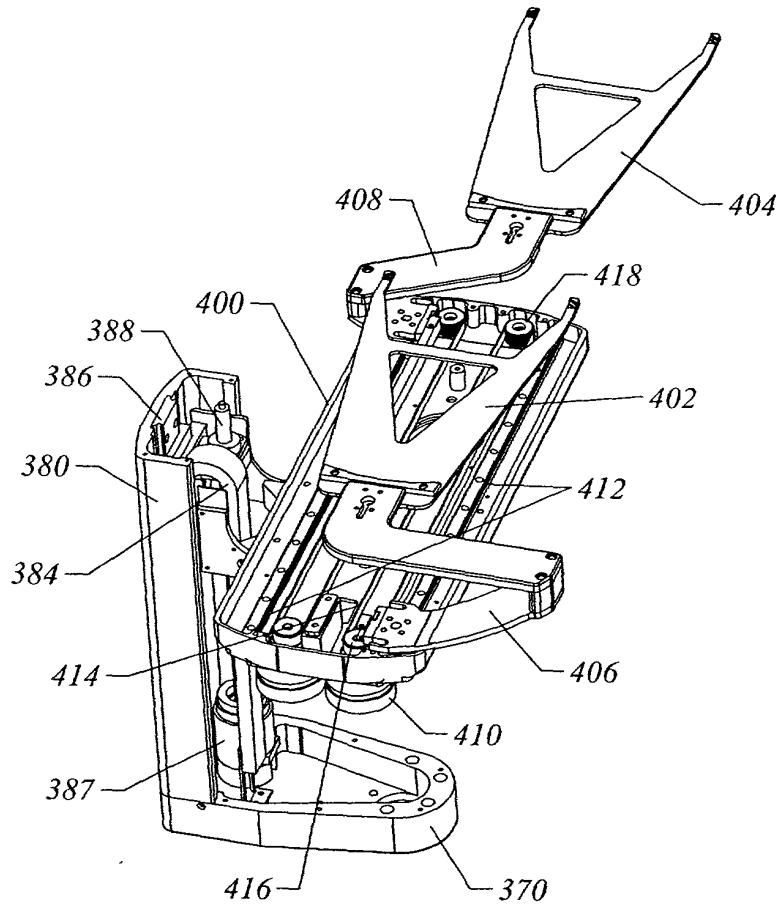


FIG. 19

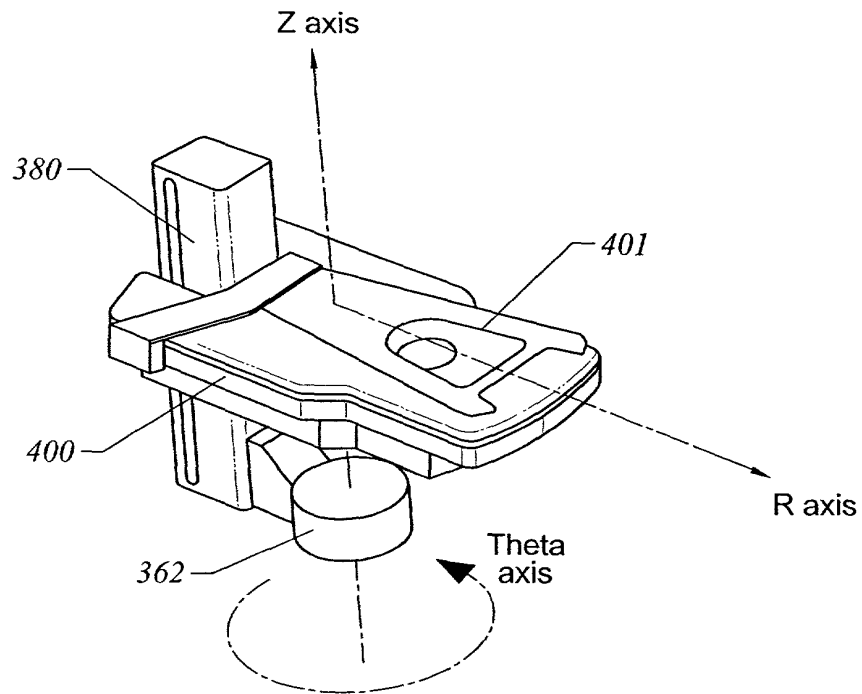


FIG. 20

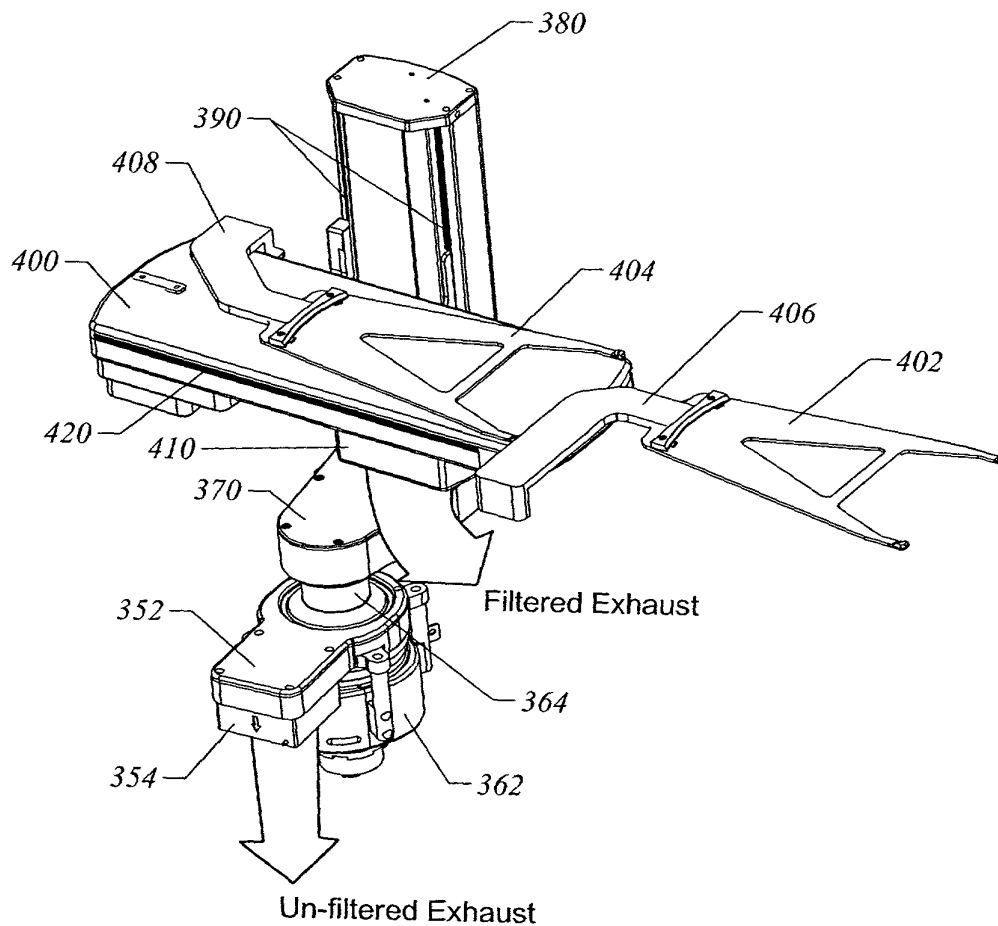


FIG. 21

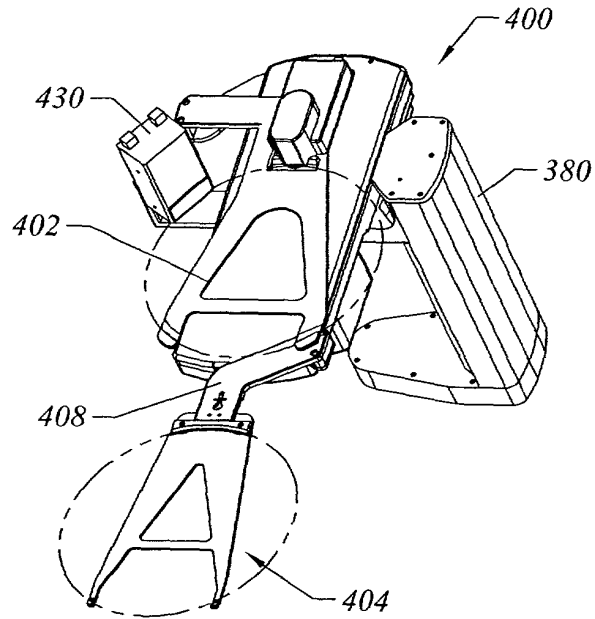


FIG. 22A

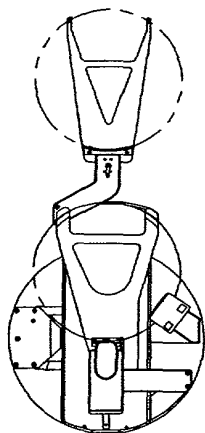


FIG. 22B

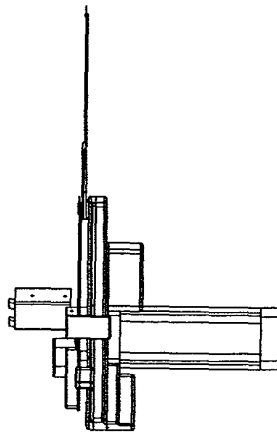


FIG. 22C

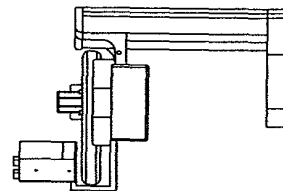


FIG. 22D

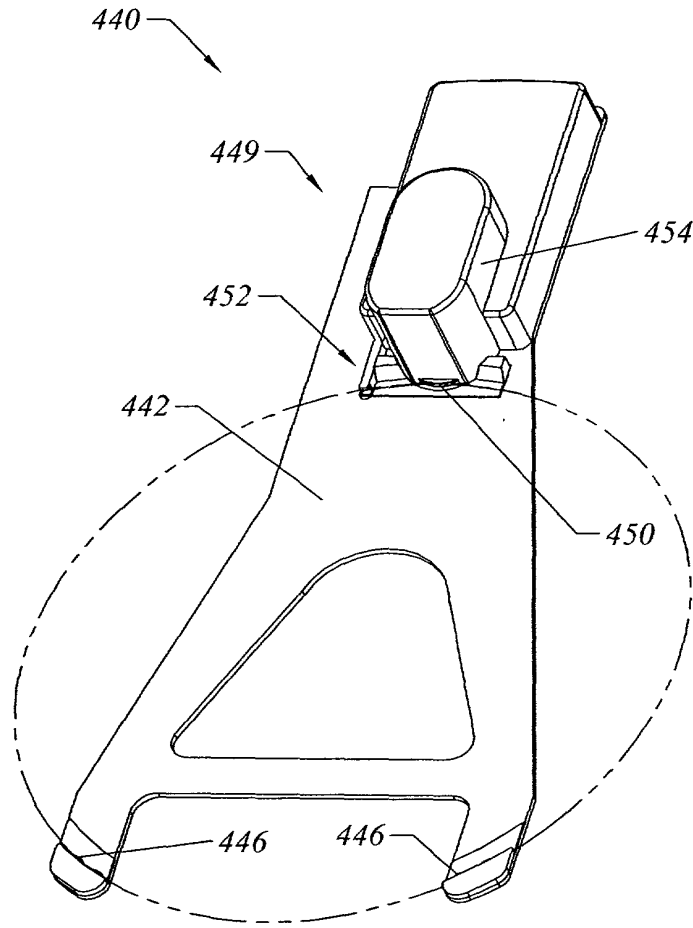


FIG. 23

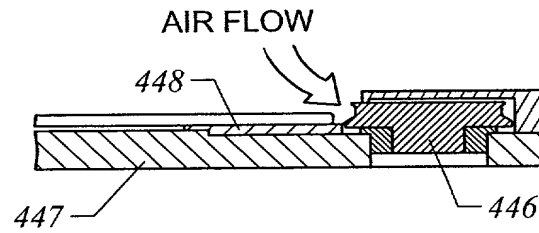


FIG. 24A

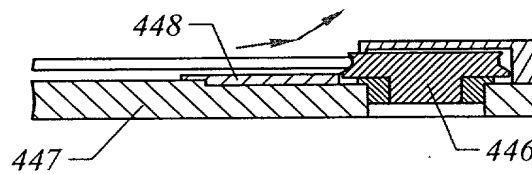


FIG. 24B

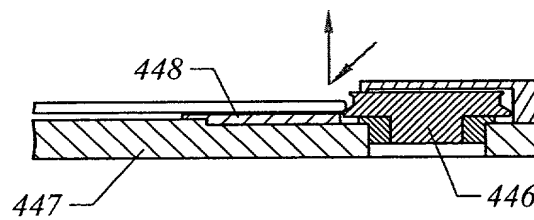


FIG. 24C

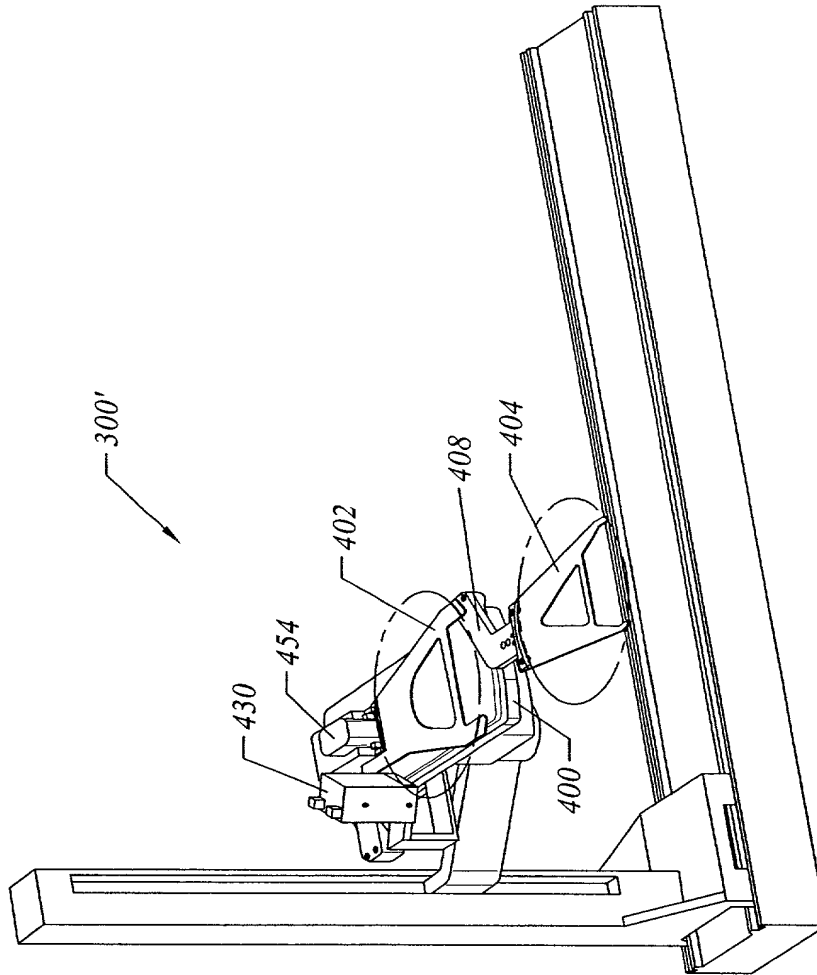


FIG. 25

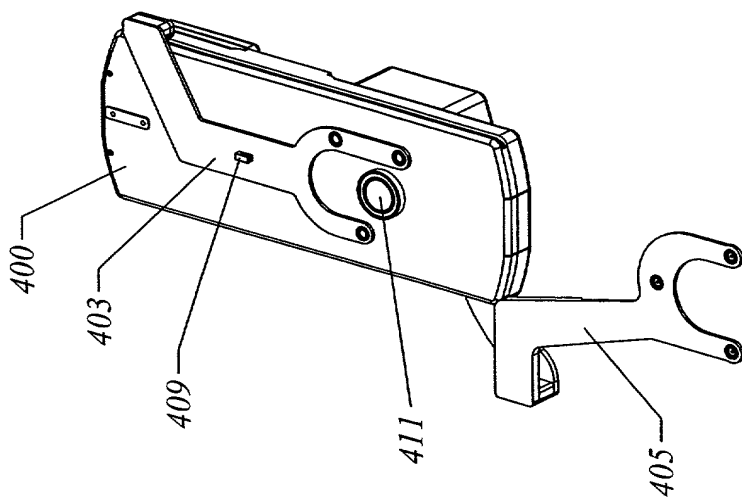


FIG. 26B

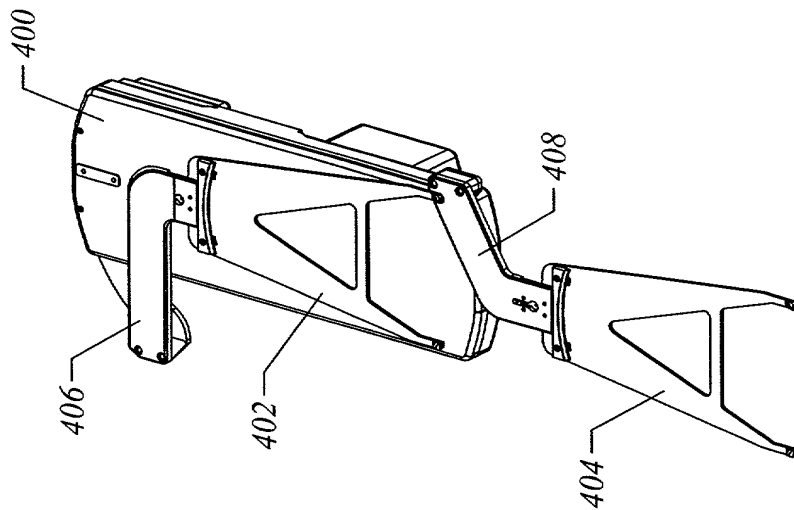
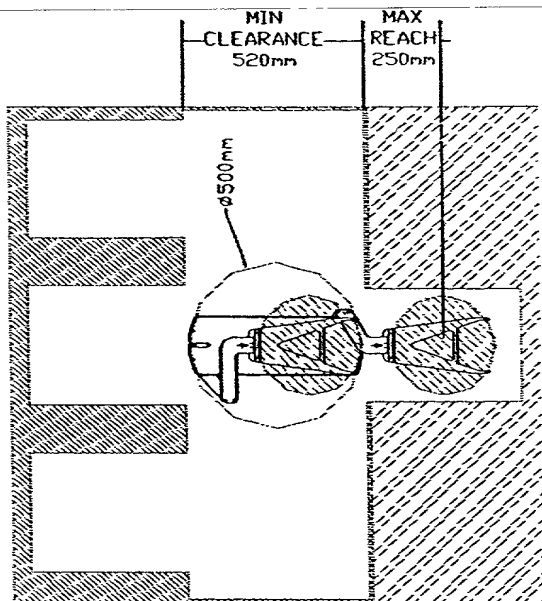
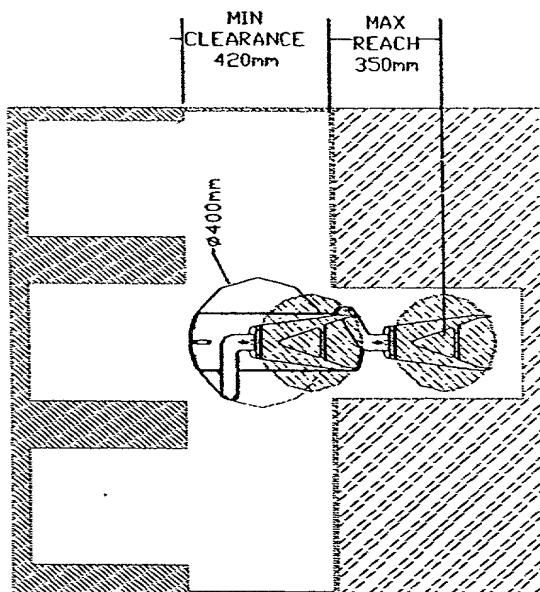


FIG. 26A

Conventional Linear Slide Robot



Off-Center Slide-Body (50mm offset)



EFEM Process Tool

FK.27B

FK.27A

Example motion sequence for rapid swap slide-body with off center rotation axis.

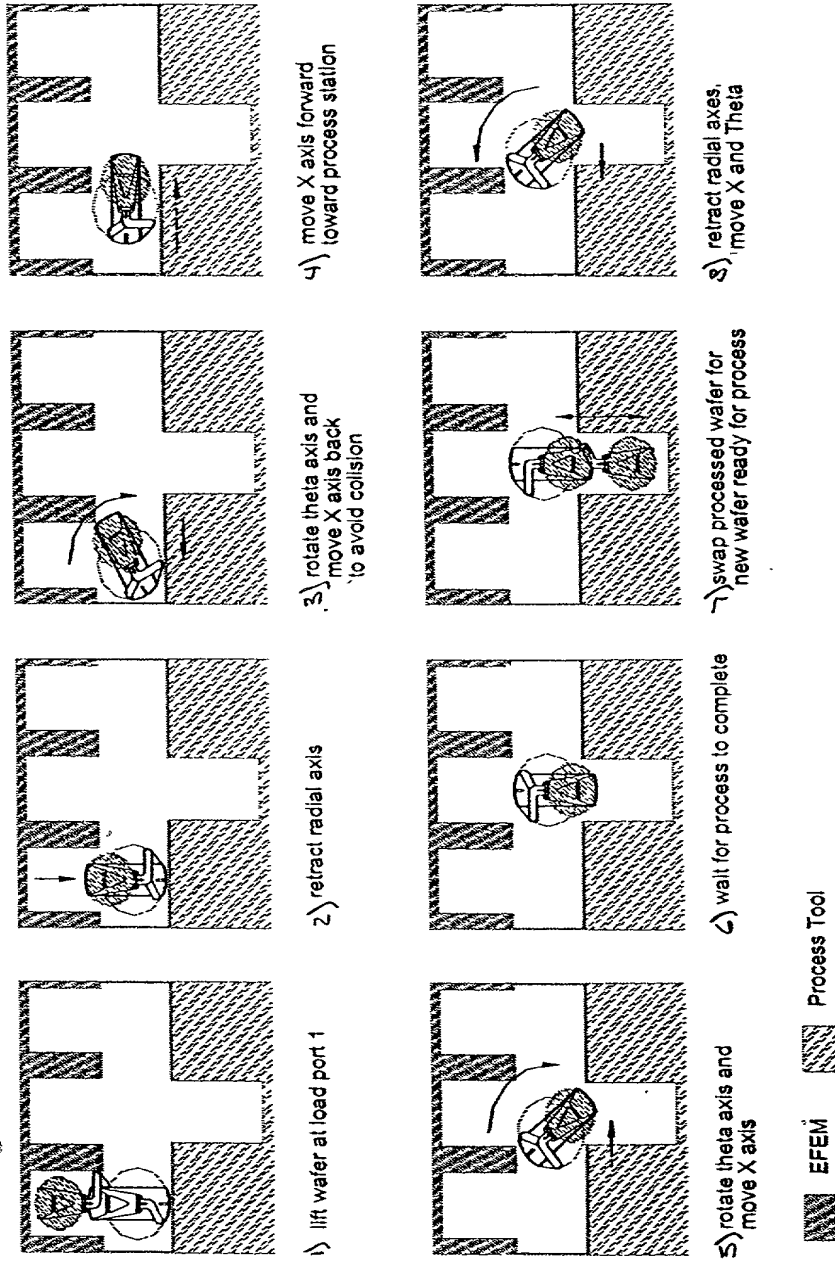


FIG. 28

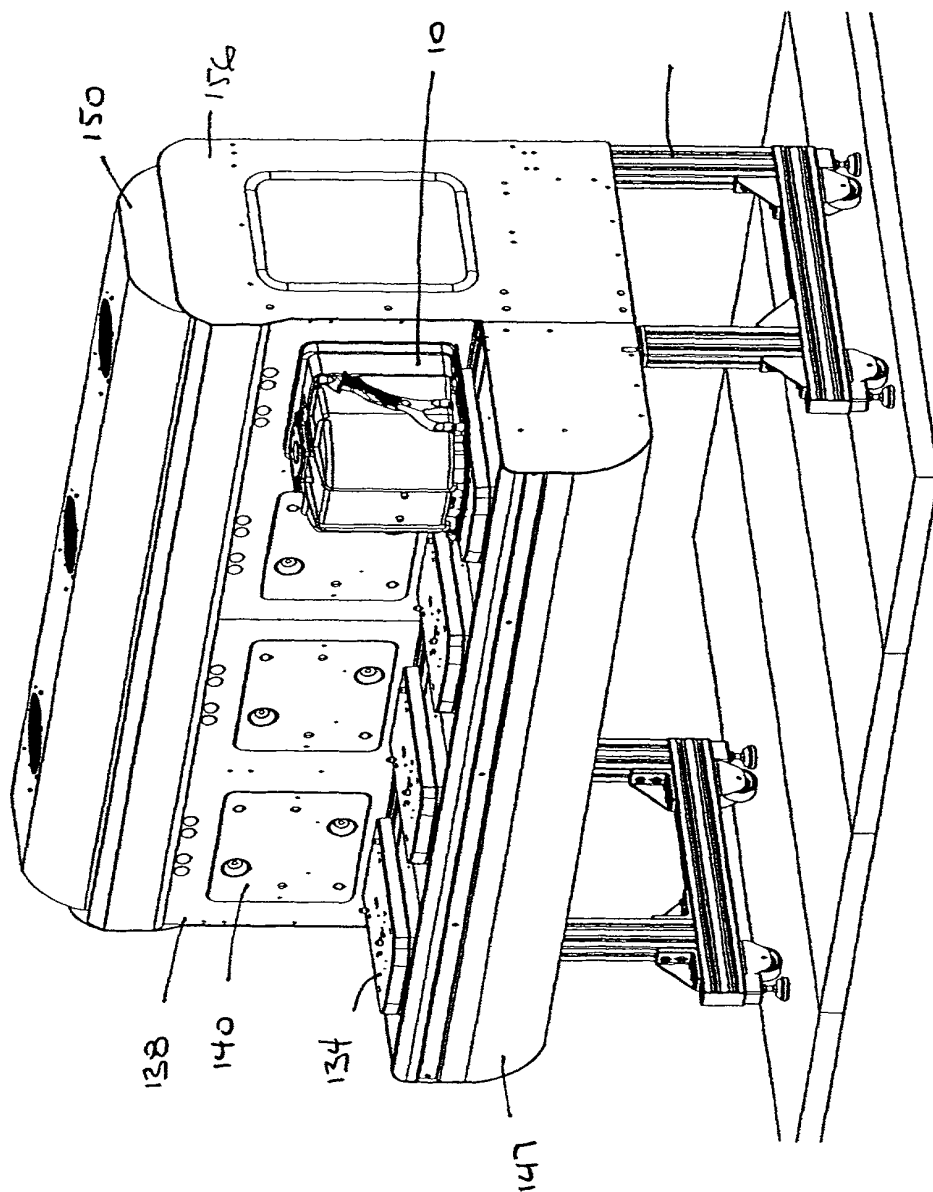
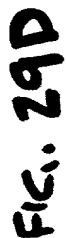
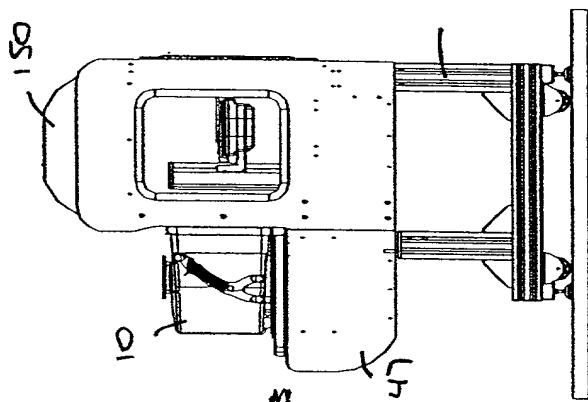


FIG. 29A



F16.29C



Fx. 29B



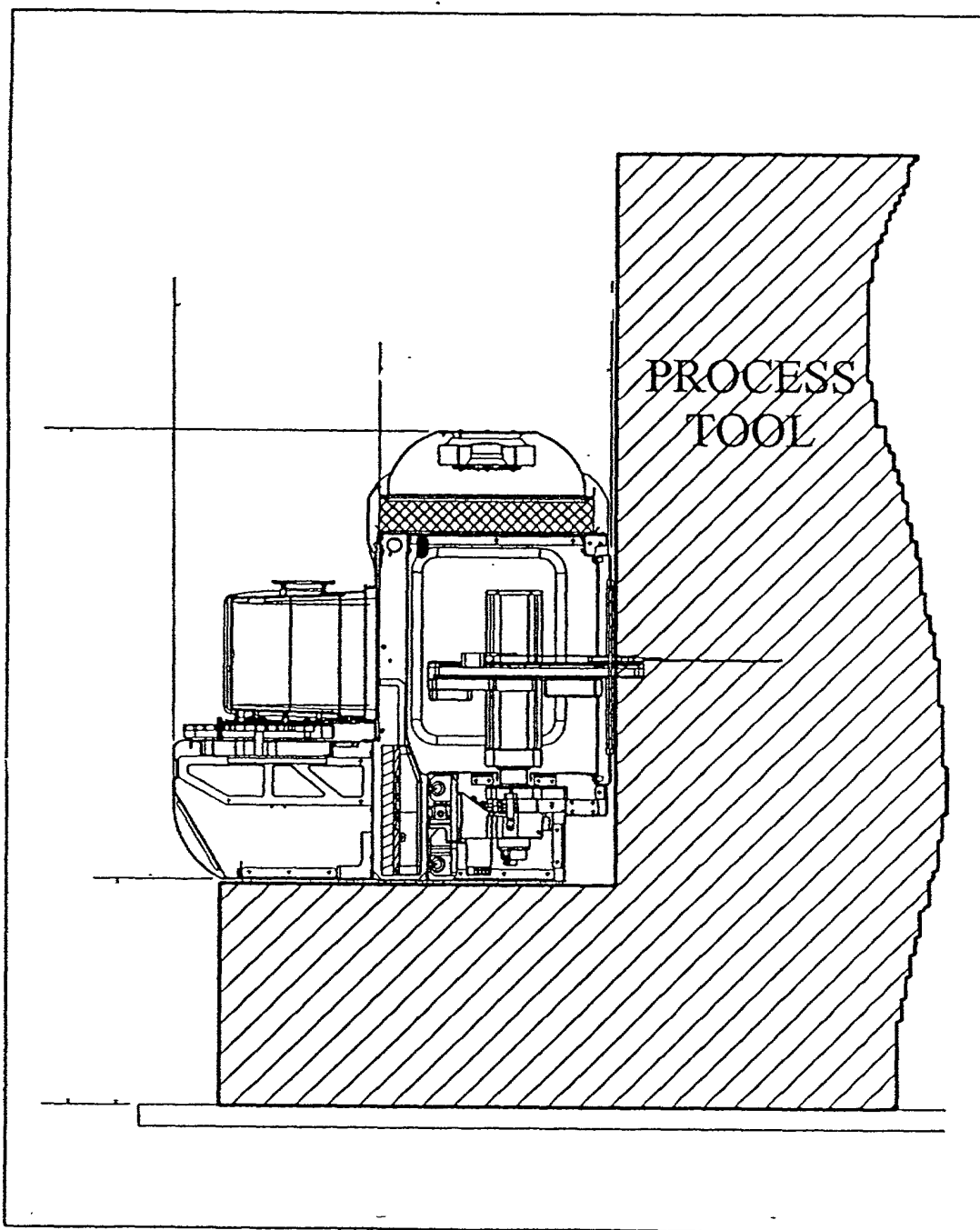


FIG. 30B

Docket No.: ASYS8173US1
Serial No.: Unknown
Confirm No: Unknown
Filed: Herewith

Inventor(s): Anthony C. Bonora et al.
Attorney: Scott D Sanford
Phone: (415) 362-3800
Express Mail No.: EL670726198US

Sheet 34 of 34

